

Figure 1

>huGST-3 (from LifeSeq EST #2617407, ORF is highlighted in capitals)
gaattccattgtgttggttacggaagacgacagaagggtagaggagaaaagcgcacatgg
cccggctagcagtgagcctctcaaaagcagcaggggaagcccaagccacaaggtcttcc
acttcagcacaatgctactgcctaaaaaaATGAAGCTCCTGCTGTTTCTGGTTTCCCA
GATGGCCATCTTGGCTCTATTCTTCCACATGTACAGCCACAACATCAGCTCCCTGTCT
ATGAAGGCACAGCCCGAGCGCATGCACGTGCTGGTTCTGTCTTCCTGGCGCTCTGGCT
CTTCTTTTGTGGGGCAGCTTTTTGGGCAGCACCCAGATGTTTTCTACCTGATGGAGCC
CGCTGGCACGTGTGGATGACCTTCAAGCAGAGCACCGCCTGGATGCTGCACATGGCT
GTGCGGGATCTGATACGGGCCGTCTTCTTGTGCGACATGAGCGTCTTTGATGCCTACA
TGAACCTGGTCCCCGGAGACAGTCCAGCCTCTTTCAGTGGGAGAACAGCCGGGCCCT
GTGTTCTGCACCTGCCTGTGACATCATCCACAAGATGAAATCATCCCCGGGCTCAC
TGCAGGCTCCTGTGCAGTCAACAGCCCTTTGAGGTGGTGGAGAAGGCCTGCCGCTCCT
ACAGCCACGTGGTGCTCAAGGAGGTGCGCTTCTTCAACCTGCAGTCCCTCTACCCGCT
GCTGAAAGACCCCTCCCTCAACCTGCATATCGTGACCTGGTCCGGGACCCCCGGGCC
GTGTTCCGTTCCCGAGAACGCACAAAGGGAGATCTCATGATTGACAGTCGCATTGTGA
TGGGGCAGCATGAGCAAAACTCAAGAAGGAGGACCAACCCTACTATGTGATGCAGGT
CATCTGCCAAAGCCAGCTGGAGATCTACAAGACCATCCAGTCCTTGCCCAAGGCCCTG
CAGGAACGCTACCTGCTTGTGCGCTATGAGGACCTGGCTCGAGCCCCTGTGGCCCAGA
CTTCCCGAATGTATGAATTCGTGGGATTGGAATTCTTGCCCCATCTTCAGACCTGGGT
GCATAACATCACCCGAGGCAAGGGCATGGGTGACCACGCTTTCACACAAATGCCAGG
GATGCCCTTAATGTCTCCCAGGCTTGGCGCTGGTCTTTGCCCTATGAAAAGGTTTCTC
GACTTCAGAAAGCCTGTGGCGATGCCATGAATTTGCTGGGCTACCGCCACGTGAGATC
TGAACAAGAACAGAGAAACCTGTTGCTGGATCTTCTGTCTACCTGGACTGTCCCTGAG
CAAATCCACTAAgaggggttgagaaggctttgctgccacctgggtgtcagcctcagtcac
tttctctgaatgcttctgagccttgacctacatctctgagccttaactacatgtctgtg
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aaacctccctgtccacatcttgcccaatggggaatggatctttcaccaaagagctcac
cagcattttccacagagatgcgaattctgagcccttggagttcccaatgggattcaag
gaaggaagtgggaacaagggttgatgcctacttatgagccttgaccatacagctatcgg
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tgcctgggcttgatttgaaatcatcttccctttgcattttccattacatagaaaact
ttgacctgtgaaacttgccatctgttaataactaaaattcccaaataagggttctgttta
gaatgtccctttttatgcttcttaattattagcagtaaatgttcatttttatgggatc
ctaaaaaaaaaaaa

102250-52591360

Figure 2

>huGST-3 (Full length EST Lifeseq #2617407)

MLLPKKMKLLLFLVSQMAILALFFHMYSHNISSLMSKAQPERMHVLVLSSWRSGSSFV
GQLFGQHPDVFYLMPEPAWHVWMTFKQSTAWMLHMAVRDLIRAVFLCDMSVFDAYMEPG
PRRQSSLFQWENSRALCSAPACDIIPQDEIIPRAHCRLLCSHNPLRWWKRPCRSYSHV
VLKEVRFFNLQVPIPAERPLLNLHIVHLVLDPRSVFRSRERTKGDLMIDSRIVMGQH
EQKLKKEDQPYYVMQVICQSQLEIYKTIQSLPKALQERYLLVRYEDLARAPVAQTSRM
YEFVGLEFLPHLQTWVHNITRGKMGMDHAFHTNARDALNVSQAWRWSLPYEKVSRLQK
ACGDAMNLLGYRHVRSEQEQRNLLLDLLSTWTVPEQIH

Figure 3

>msGST-3 from mouse C57Bl/6 BAC clone #87(b15) (ORF is highlighted as capitals)

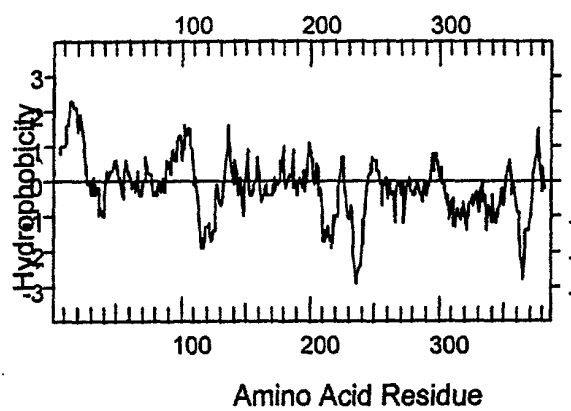
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aactcagccccatccccctctgcttgctctttcaaggtcttctccttcttccgcaggAT
GATGCTGTTGAAGAAAGGGAGGCTGCTGATGTTCTTGGGTTCCTGAGTTCATCGTTGTA
GCTCTCTTCATCCATATGTCCGTCCACAGACACCTTTCCAGAGGGAGGAGTCCAGGA
GGCCCGTGCATGTGCTGGTGTCTTCTGGCGGTGAGGATCCTCTTTTGTGGGACA
GCTTTTCGGGCAGCACCCGGATGTGTTCTACCTGATGGAGCCTGCCTGGCATGTGTGG
ATGACTTTCACCAGCAGCACAGCCTGGAAGCTGCACATGGCTGTGCGGGATCTTCTGC
GTTCCGTCTTCTGTGTGACATGAGCGTCTTTGATGCCTACATGAACCCAGGCCCCCG
GAAACAGTCCAGCCTCTTCCAGTGGGAGCAAAGCCGGGCCCTGTGCTCAGCGCCTGTG
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CAAGGAGGTGCGTTTTCTCAGCCTGCAGGCCCCCTATCCACTACTCACGGACCCCTTCC
CTCAACCTGCACGTGCTGCACCTGGTCCGAGACCCCCGGGCCGTGTTCCGATCCCCGGG
AGCACACCACCATAGAACTCATGGTTGACAGTCATATTGTGCTAGGGCAGCATTTGGA
AACGATCAAGGAGGAAGACCAGCCCTATTATGCCATGAAGATCATCTGCAAAAGCCAG
GTGGACATAGTCAAGGCCATCCAAACCTCCCTGAAGCTCTGCAGCAGCGCTACCTGT
TCCTGAGGTATGAGGACCTGGTTCGGGCACCCCTGGCCCAGACGACCAGACTATATAA
ATTTGTGGGGTTGGATTTTTTGGCCCCACCTCCAAACATGGGTTTACAATGTCACCCGC
GGCAAGGGCATGGGTGAGCATGCCTTCCATACTAACGCCAGGAACGCCCTCAACGTCT
CTCAGGCGTGGCGTTGGTCTTACCTTACGAAAAGGTTTCCCAGCTTCAAGATGCCTG
CGGTGAGGCTATGGATTGCTGGGATACCTCCAGGTGAGATCTCAACAAGAACAAGGC
AACCTGTCCCTGGATCTTCTGTCTCTCTCCCATATCTTGGGGCAGGTCTTCCGAGAAG
GTTAAggaggtctgtctgcaccccttggttccagccttagtcaccattaaacgcacag
aagccttaaggtataaccaaaactgagtgccctttctcctcagccccaagcagagggg
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agactttcttgtaaccttggccttcttacctgtgcataccttgagactcggctctgga
ggcatactggacacagcaaacagcatctgtggagtggtgtctgtaaacctccctgtcac
atcttttctaag

Figure 4

>msGST-3 translation of ORF from mouse C57Bl/6 BAC clone #87(b15)
MMLLKKGRLLMFLGSQVIVVALFIHMSVHRHLSQREESRRPVHVLVLSSWRSGSSFVG
QLFGQHDPDVFYLMETPAWHVWMTFTSSTAWKLHMAVRDLLRSVFLCDMSVFDAYMNP GP
RKQSSLFQWEQSRALCSAPVCDFFPAHEISSPKHCKLLCGQQPFDMVEKACRSHGFVV
LKEVRFLSLQALYPLLTDPSLNLHVHLVRDPRAVFRSREHTTIELMVDSHIVLGQHL
ETIKEEDQPYYAMKIIICKSQVDIVKAIQTLPEALQQRYLFLRYEDLVRAPLAQTTRLY
KFVGLDFLPHLQTVVYNVTRGKGMGQHAFHTNARNALNVSQAWRWSLPYEKVSQQLQDA
CGEAMDLLGYLQVRSQQEQGNLSLDLLSSSHILGQVFREG

09416333.032301

Figure 5



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Figure 6

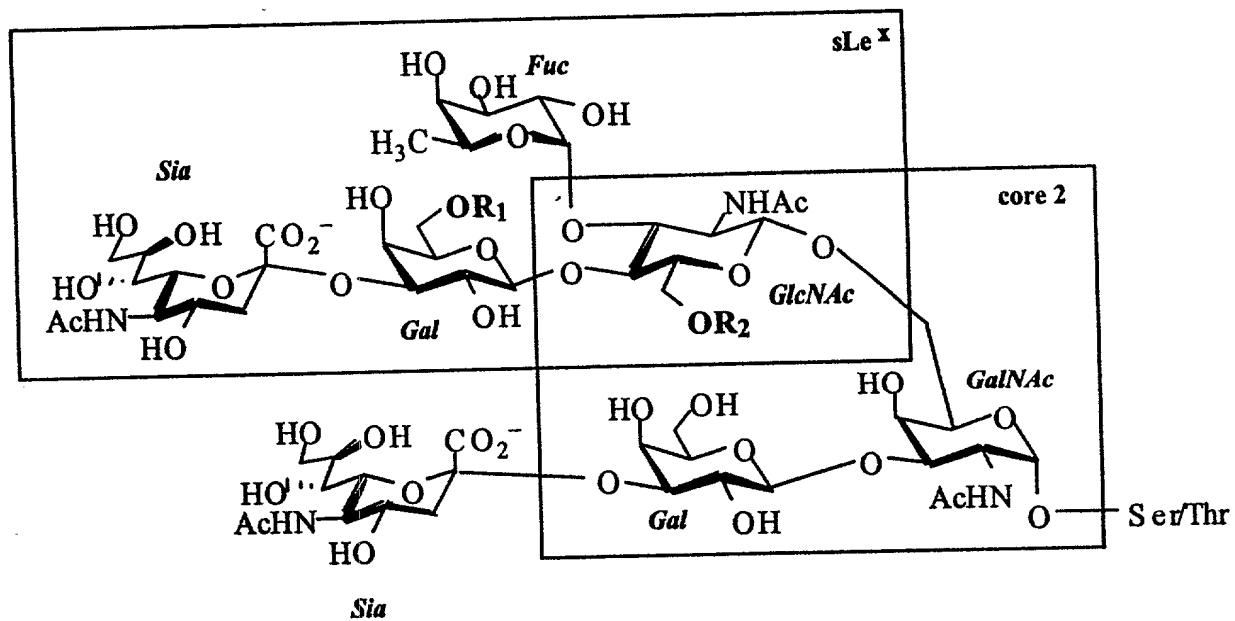
	106		134
HEC-GlcNAc6ST	SWRSGSSSFV	QLEFGQHPDVET	MTA
GlcNAc6ST	TWRSGSSSF	EGELFNQNP	EEV
KSGal6ST	TTRSGSSSFV	QLEFNCHLDVET	EEV
C6ST	TTRTGSSSFV	GEFFNQQGN	IFYLEP

	249		270
HEC-GlcNAc6ST	DPSLNLHIVH	LV	RDPR
GlcNAc6ST	DPALDLKVIH	LV	RDPR
KSGal6ST	DPRLNLKVLQ	LV	RDPR
C6ST	DPRLDLRVIQ	LV	RDPR

	320		339
HEC-GlcNAc6ST	PKALQERYL	LV	RYEDLAR
GlcNAc6ST	PDWLQGHYL	LV	RYEDIV
KSGal6ST	PPWLKGYML	LV	RYEDLAR
C6ST	PAWLGRYML	LV	RYEDVAR

091633 0391850

Figure 7



$R_1 = H, R_2 = SO_3^-$: 6-sulfo sLe^x

$R_1 = SO_3^-, R_2 = H$: 6'-sulfo sLe^x

$R_1 = R_2 = SO_3^-$: 6',6-disulfo sLe^x